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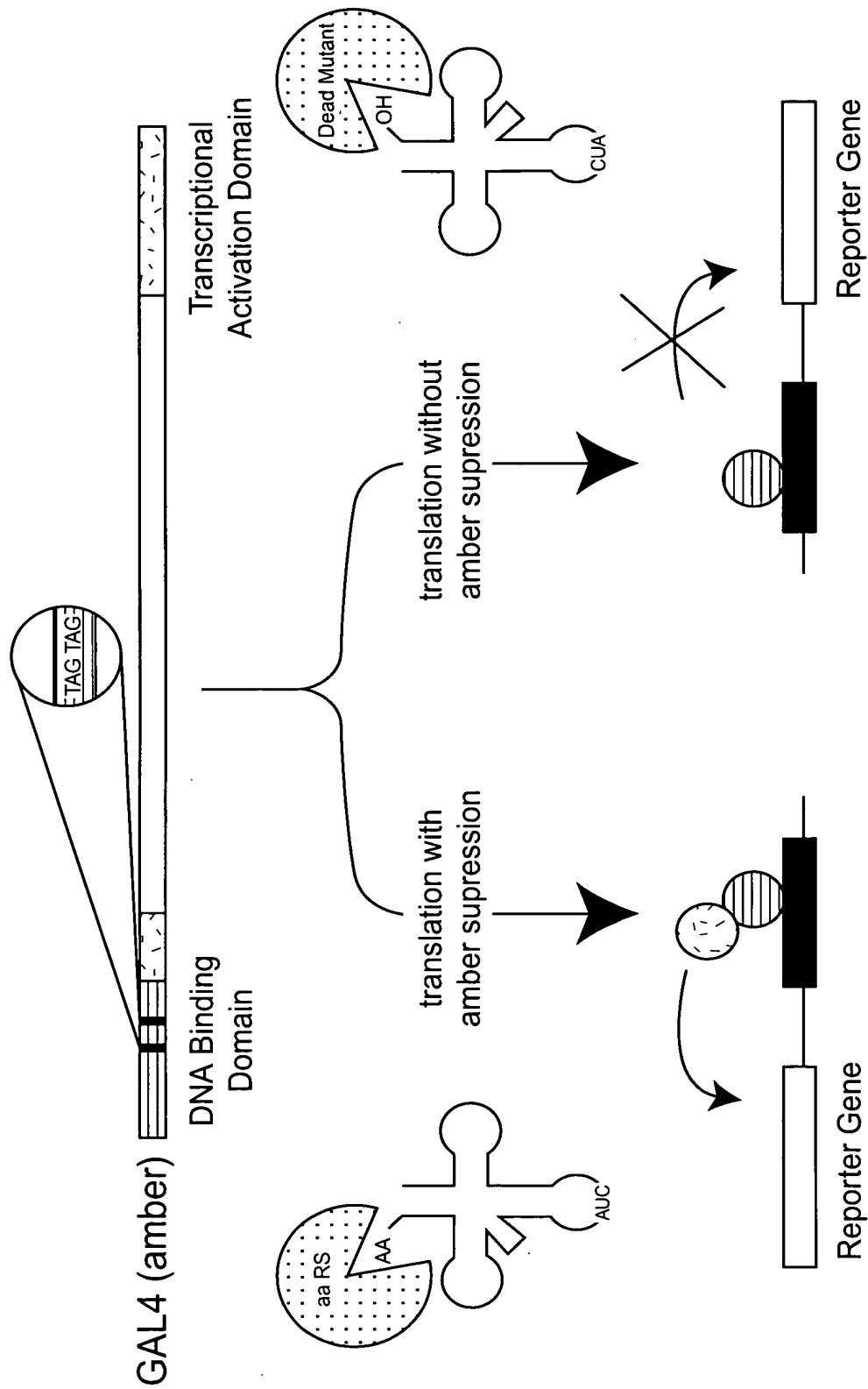


Fig. 1A

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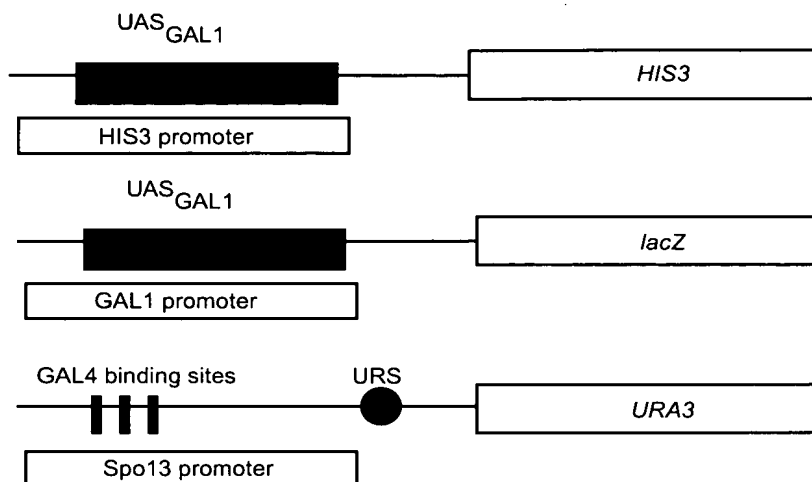


Fig. 1B

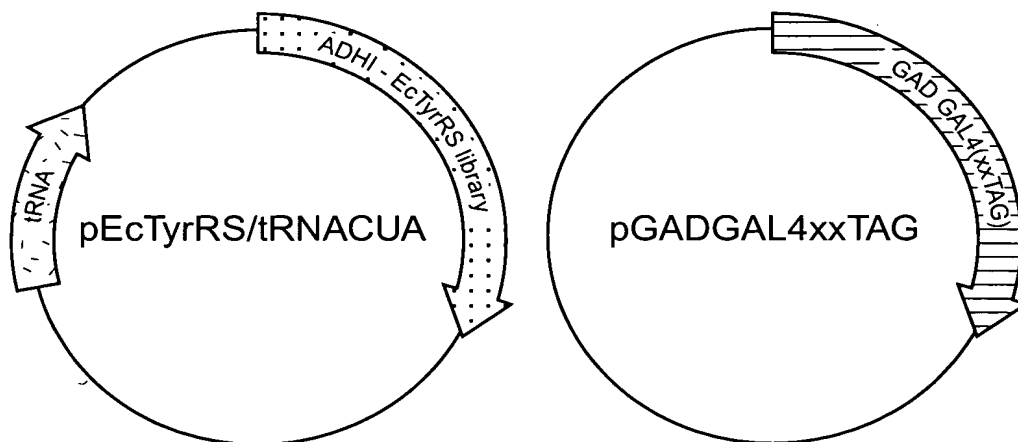


Fig. 1C

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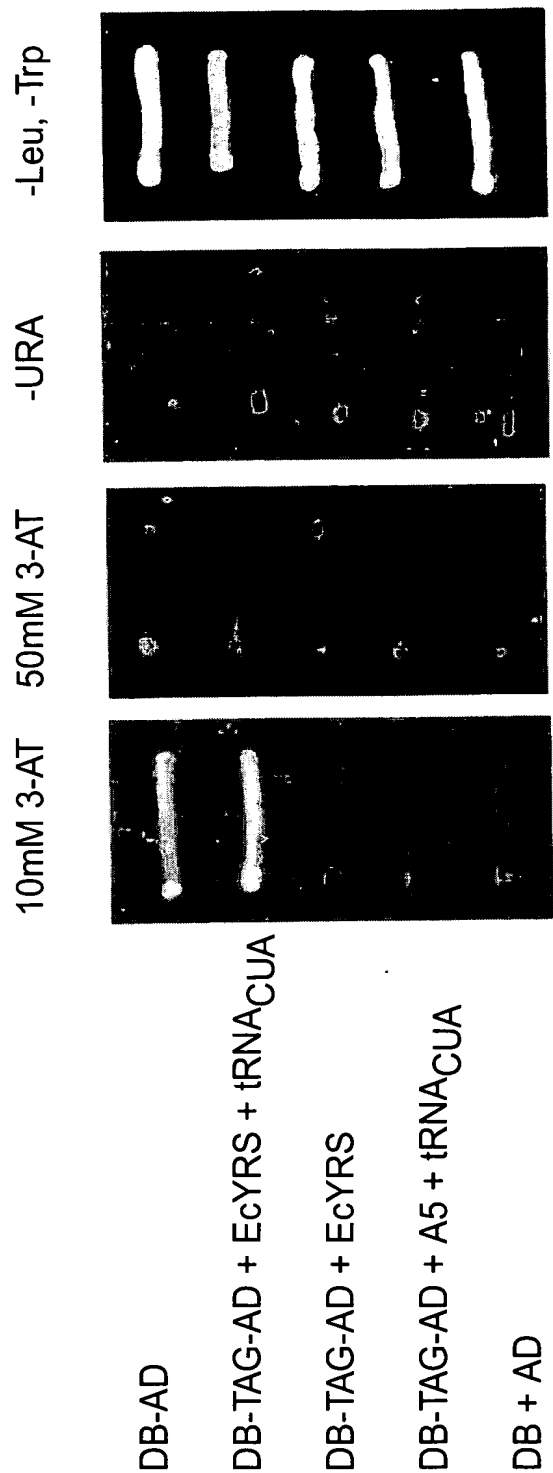


Fig. 2

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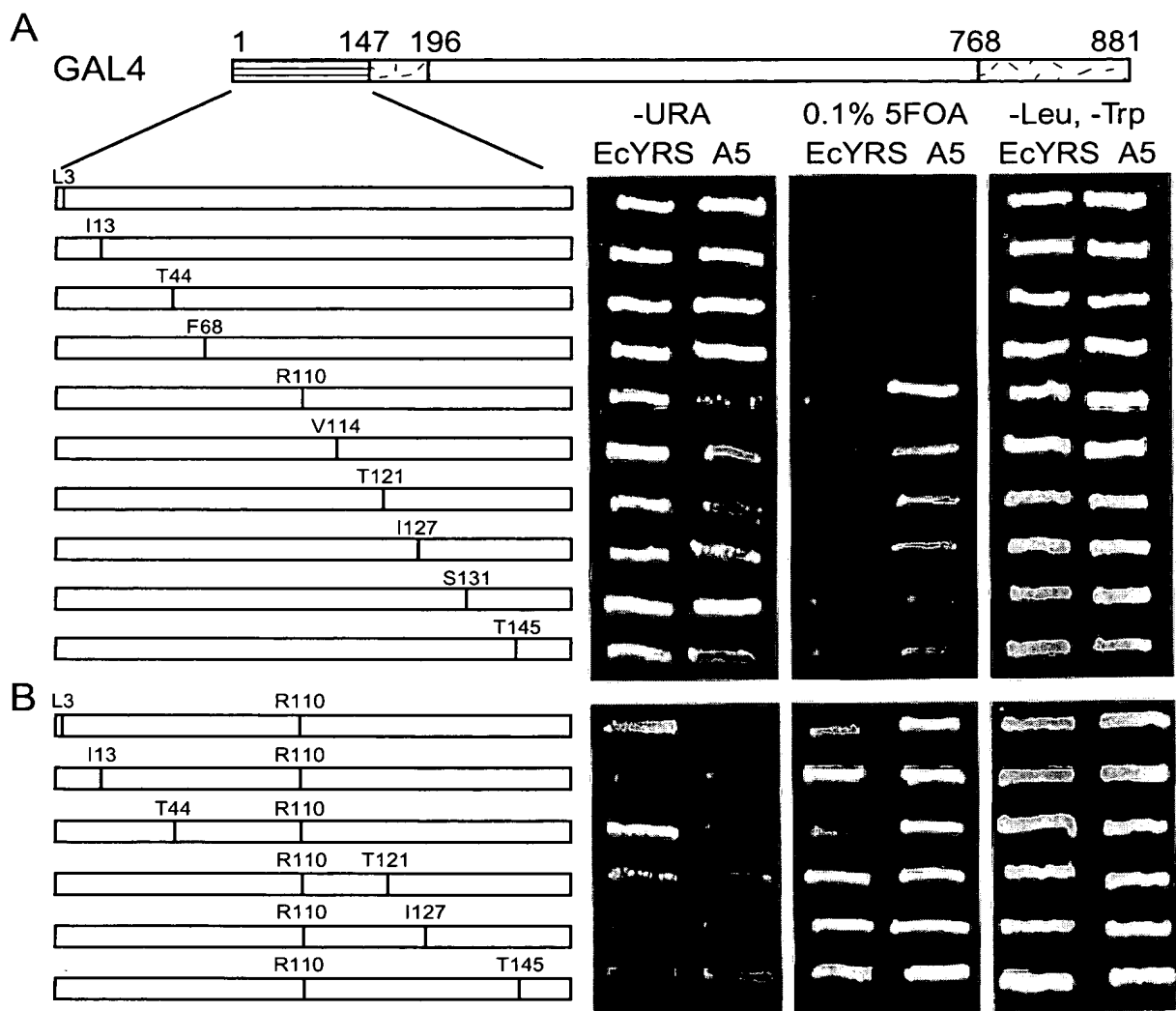


Fig. 3

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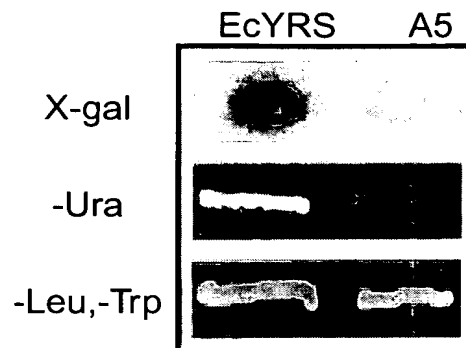


Fig. 4A

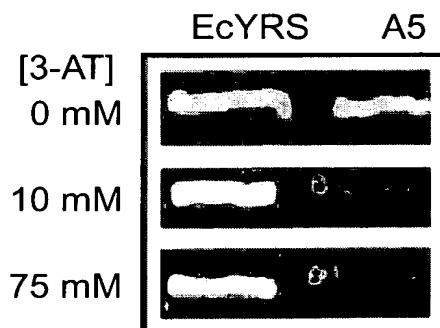


Fig. 4B

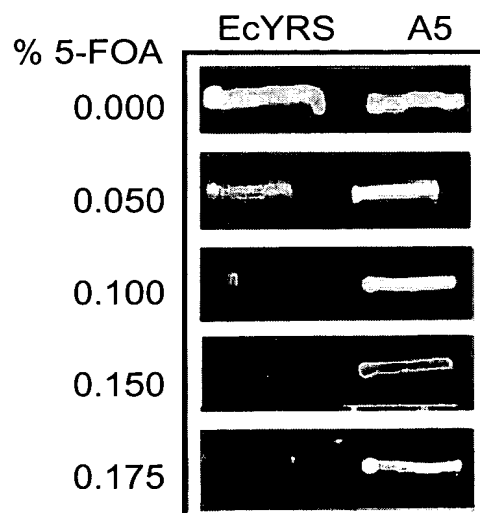


Fig. 4C

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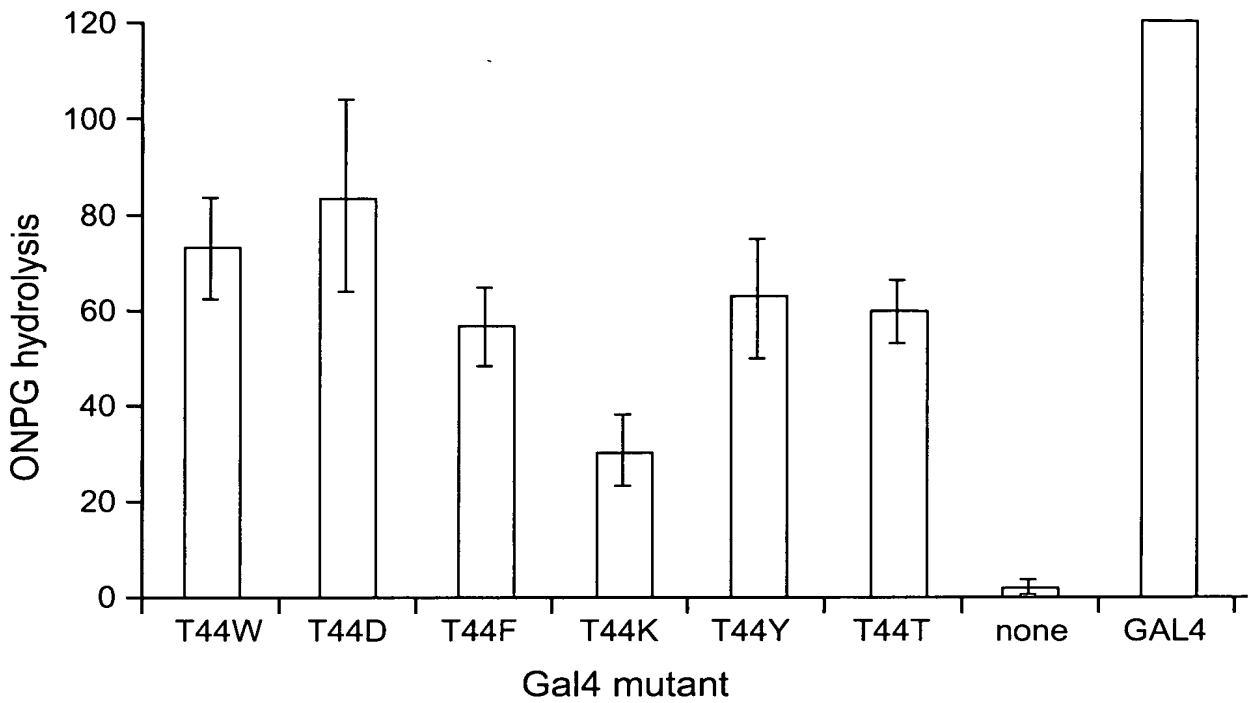


Fig. 5A

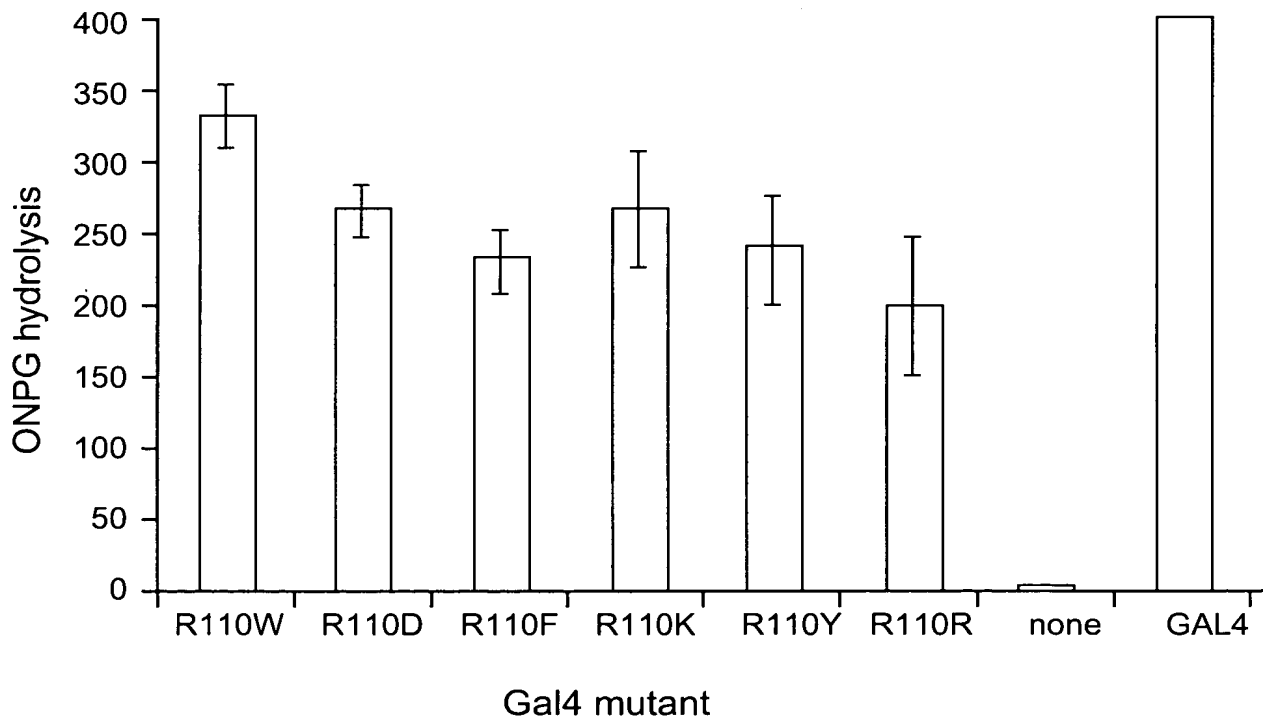


Fig. 5B

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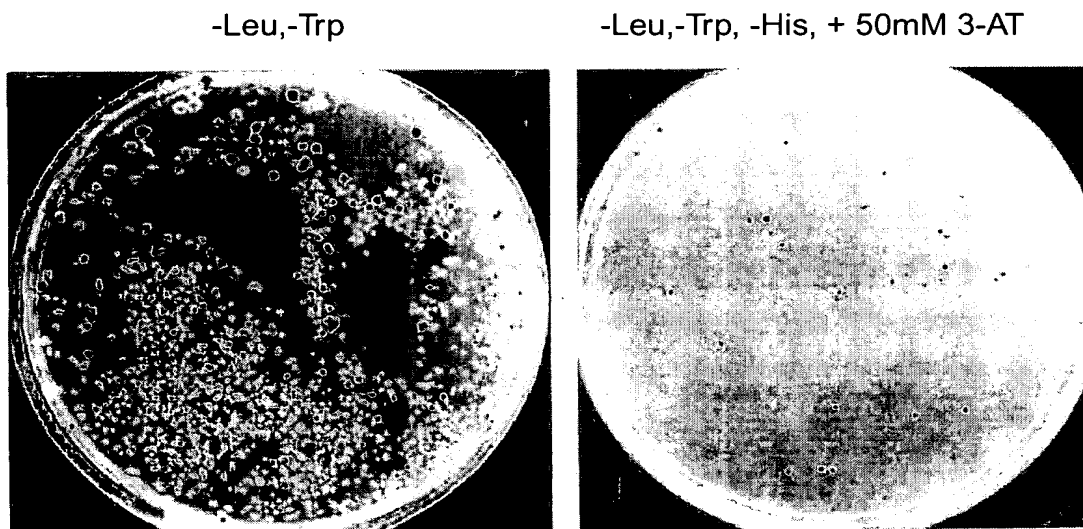


Fig. 6

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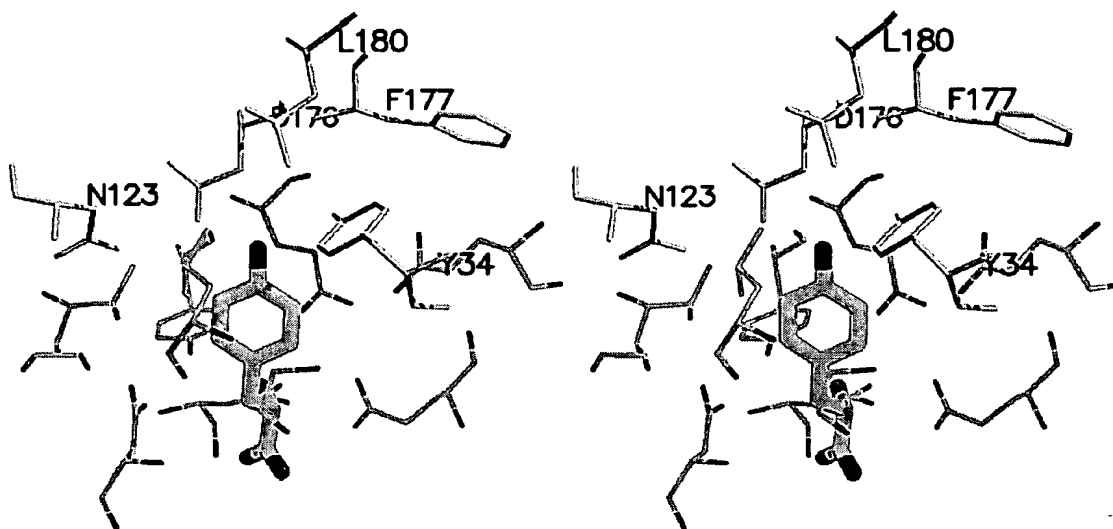


Fig. 7A

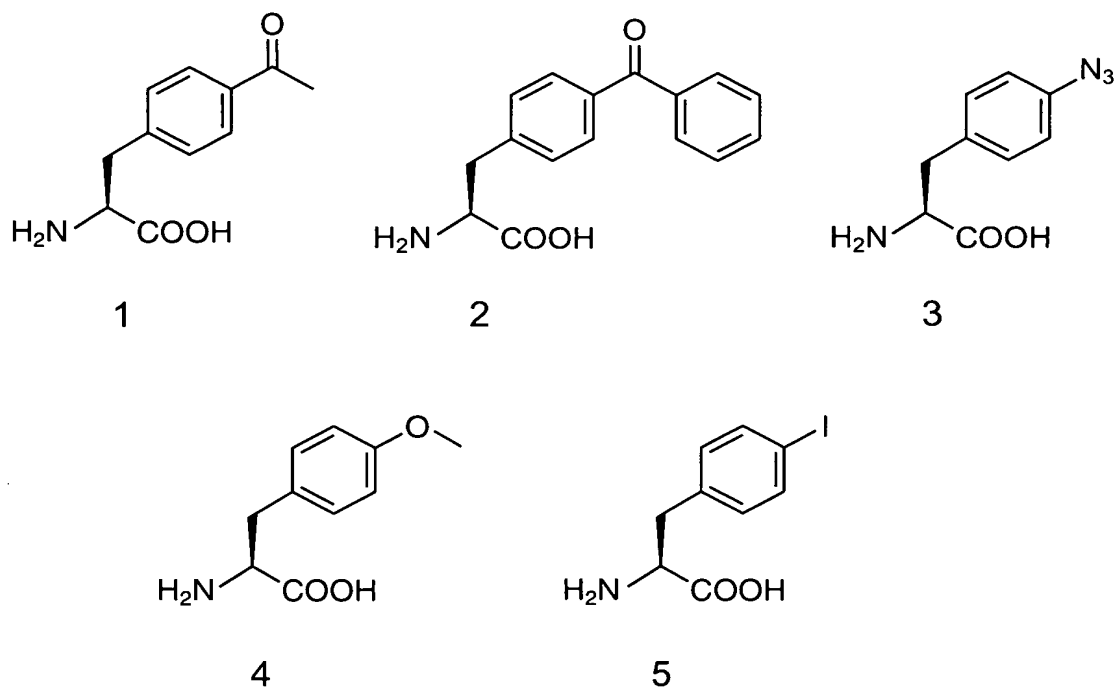


Fig. 7B

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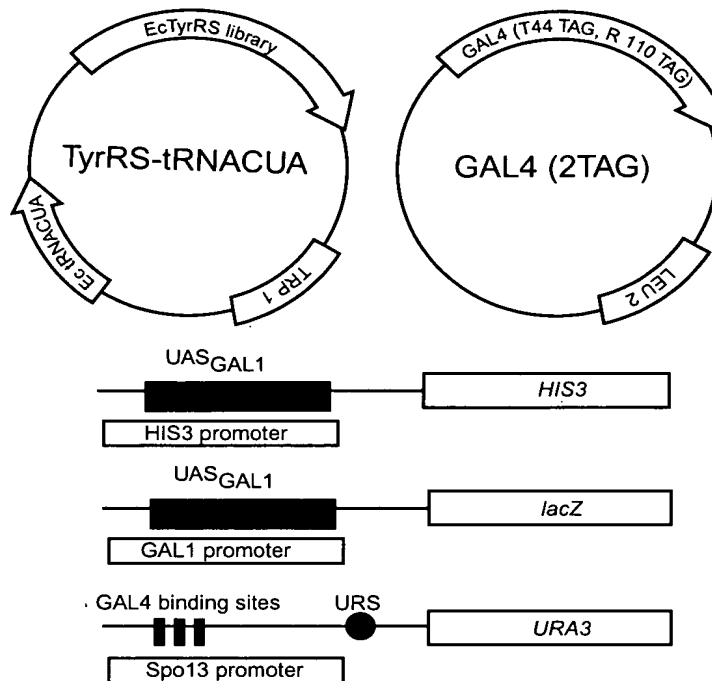


Fig. 8A

aaRS	TyrRS	A5
tRNACUA	+	+
GAL4 (2TAG)	+	+

-leu, -trp

20 mM 3-AT

-Ura

+ X-Gal

+ 0.1% 5-FOA

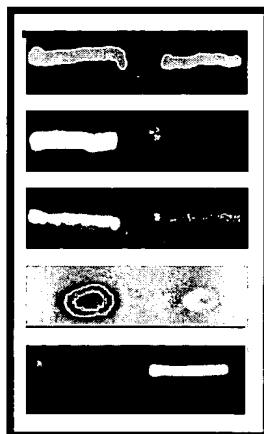


Fig. 8B

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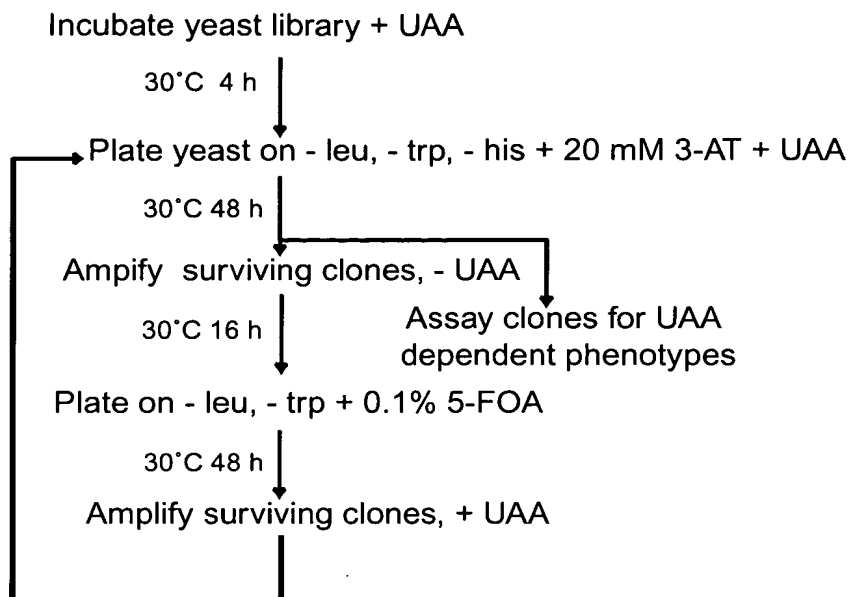


Fig. 8C

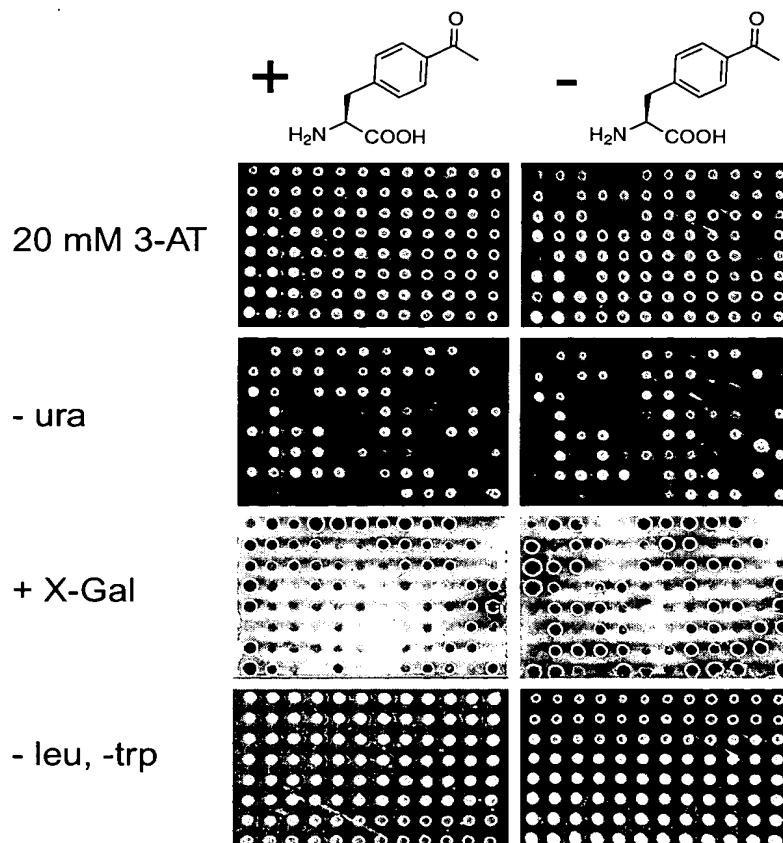


Fig. 8D

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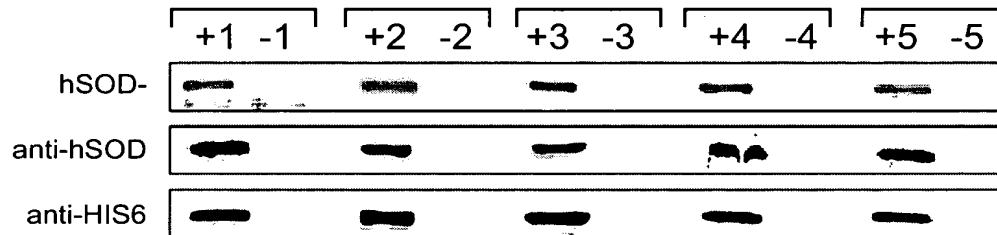


Fig. 9

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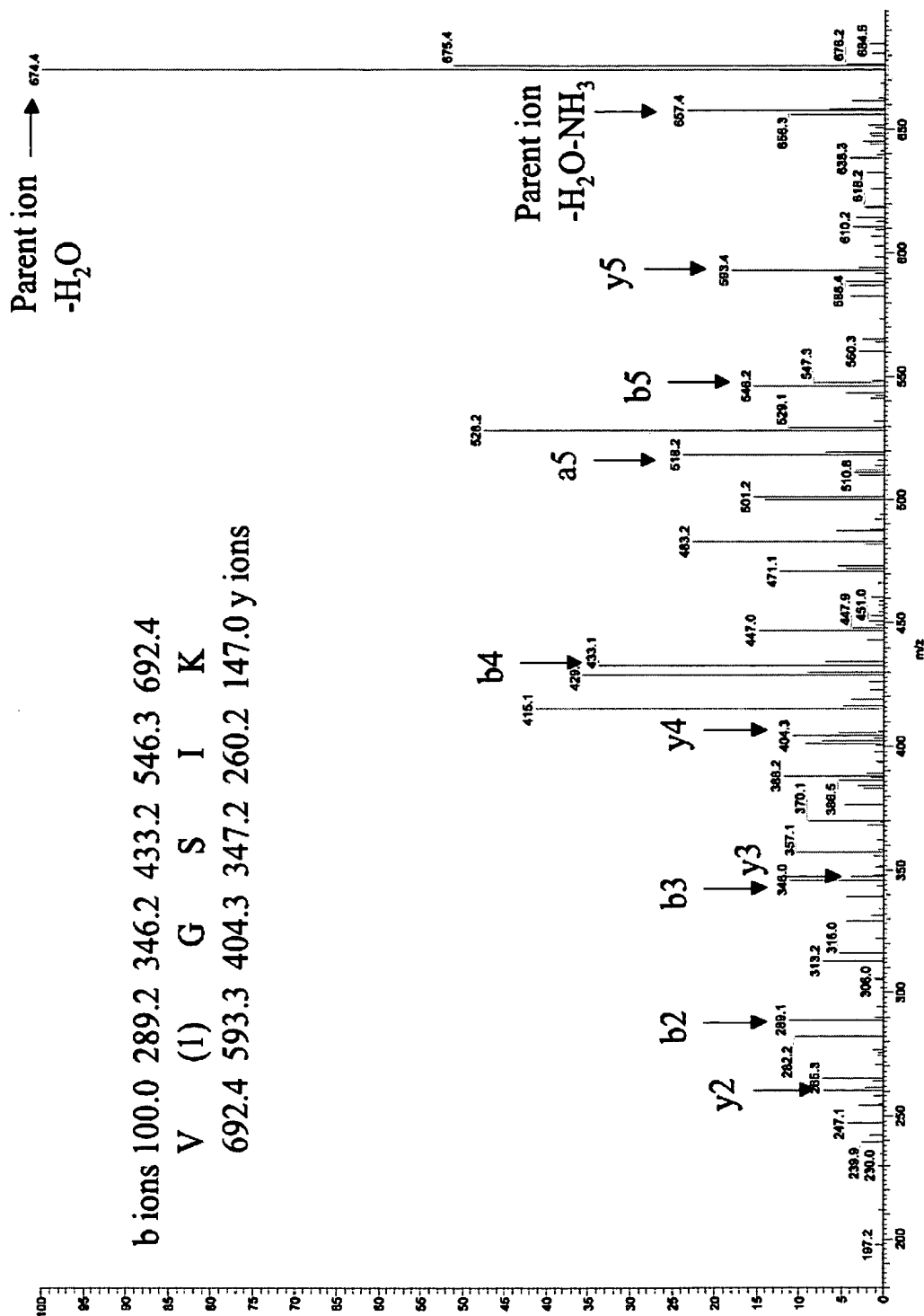


Fig. 10A

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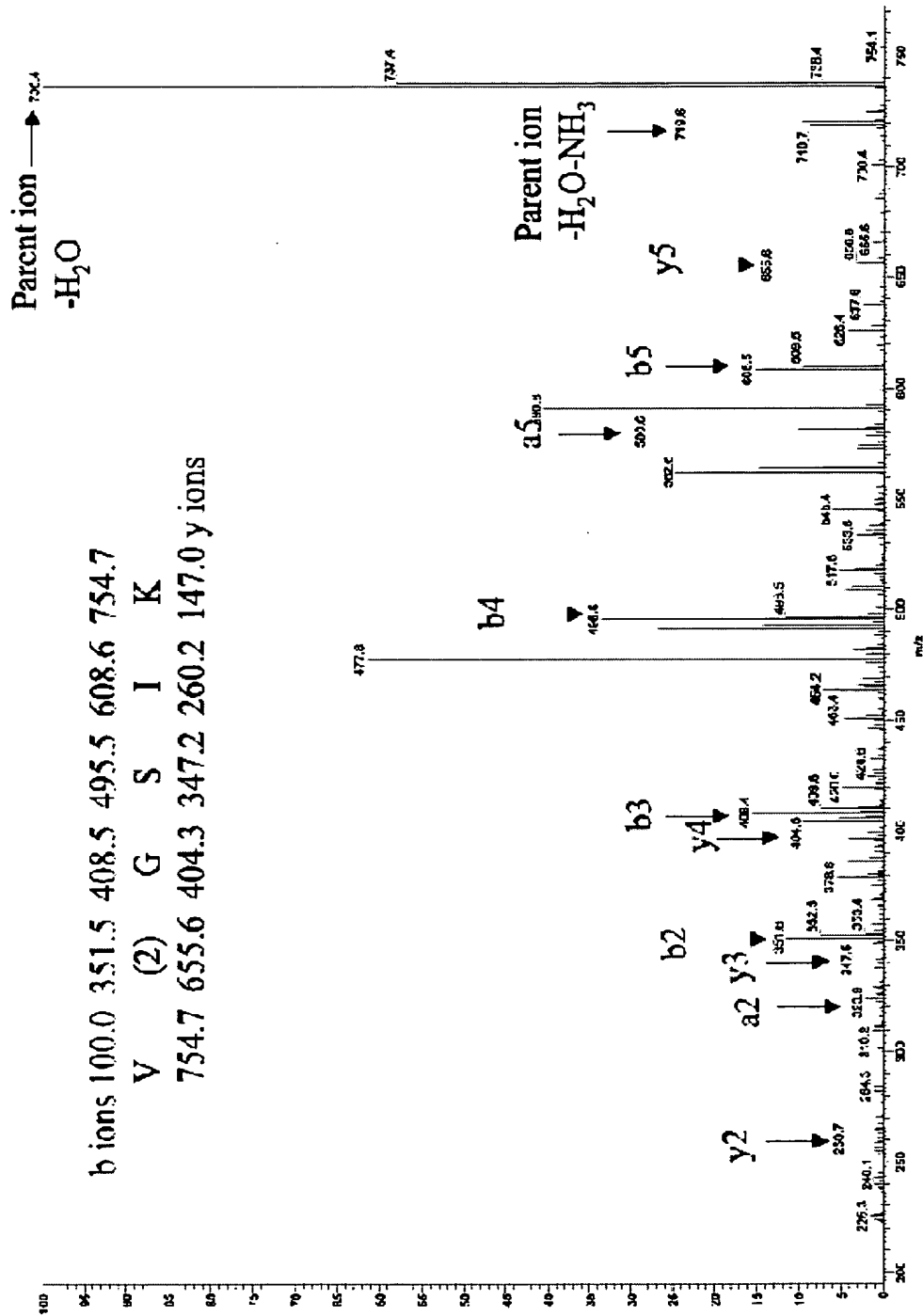


Fig. 10B

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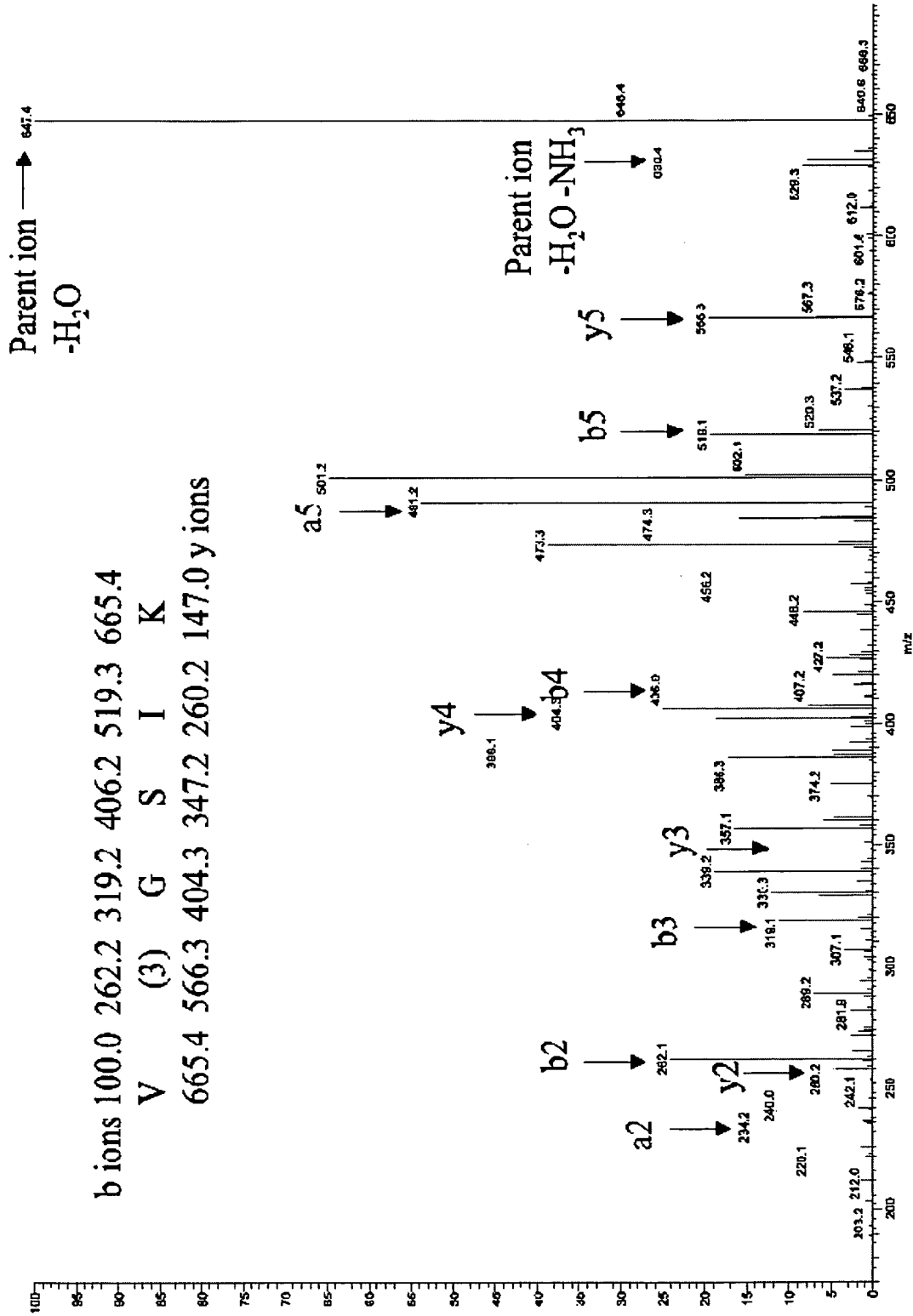


Fig. 10C

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Parent ion -
-H₂O

b ions 100.0 277.0 334.2 421.2 534.3 680.4
V (4) G S I K
680.4 581.3 404.3 347.2 260.2 147.0 y ions

Parent
-H₂O-

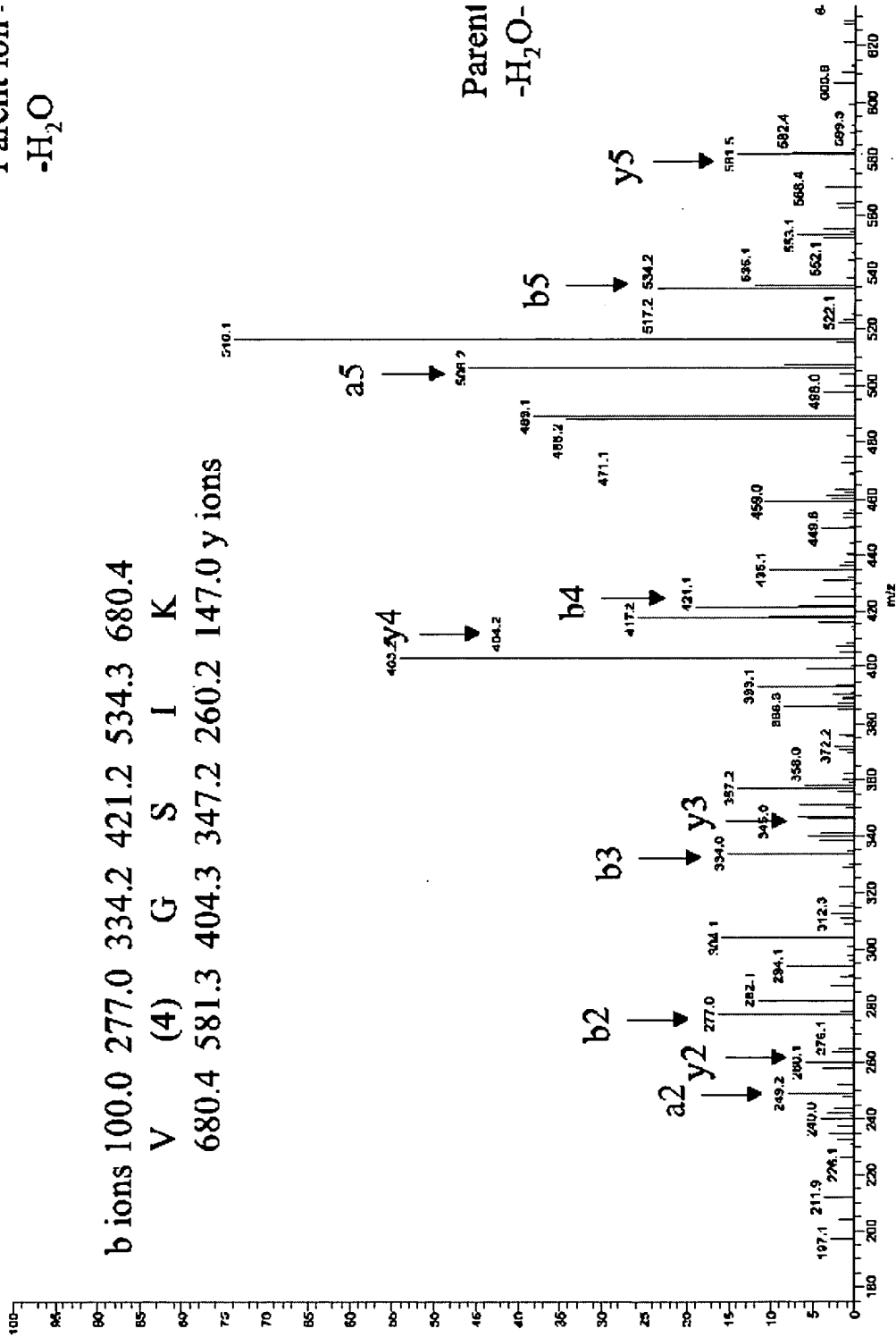


Fig. 10D

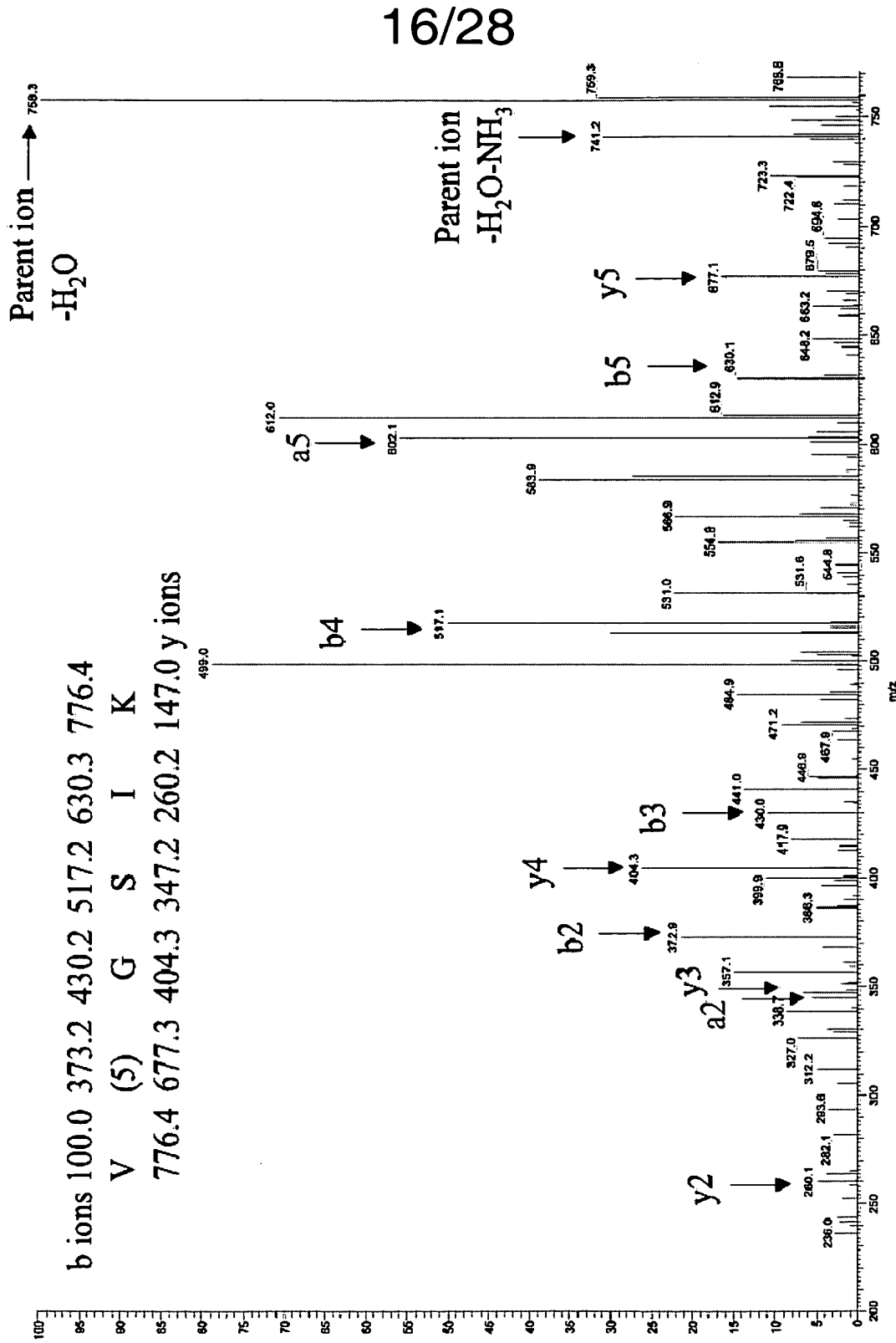
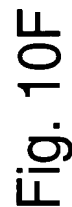


Fig. 10E



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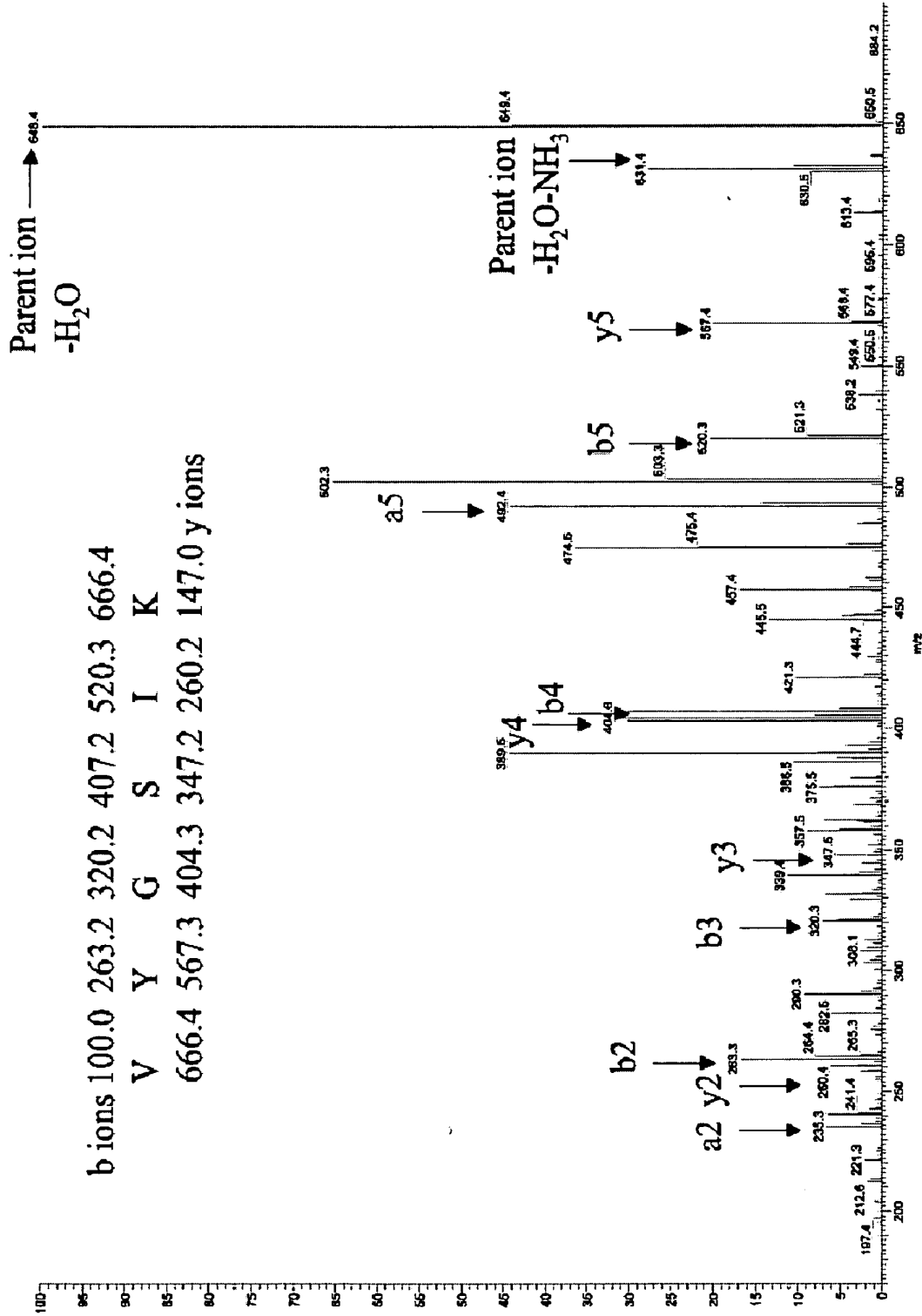


Fig. 10G

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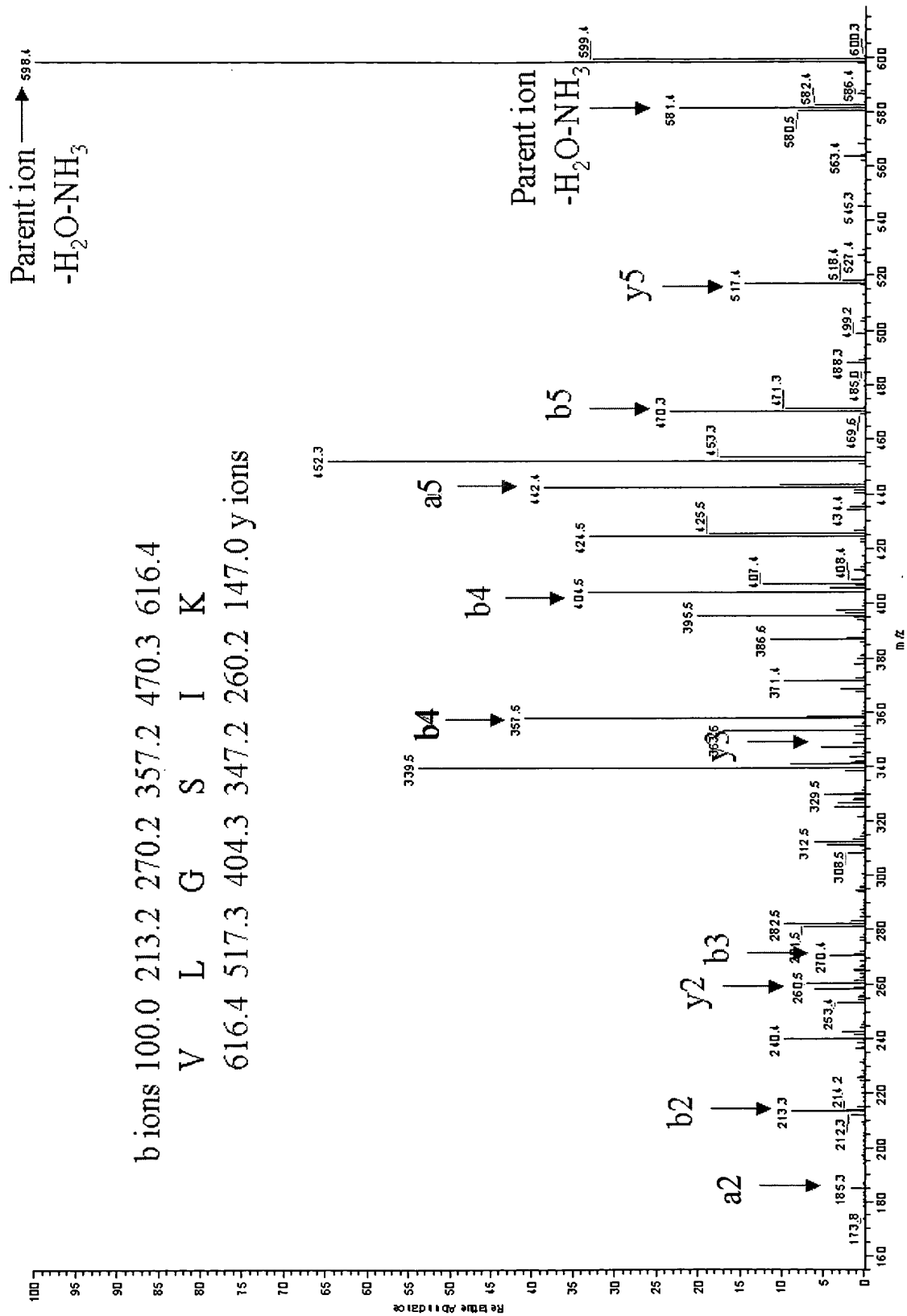


Fig. 10H

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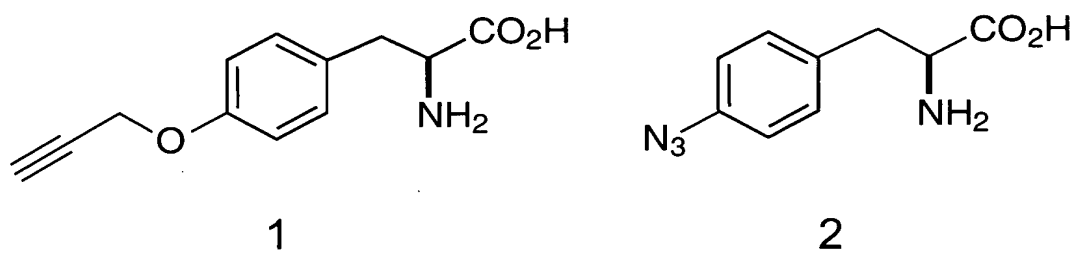


Fig. 11

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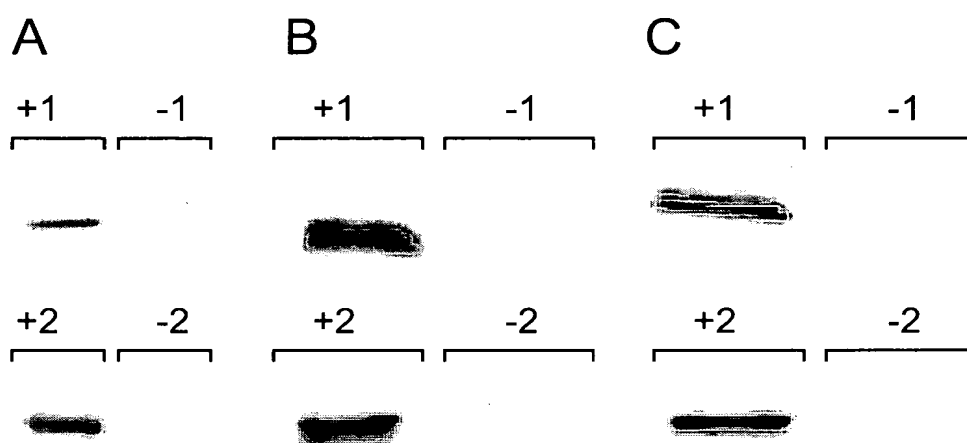
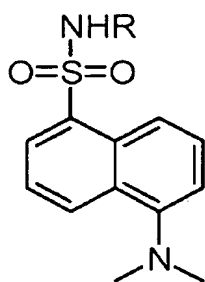


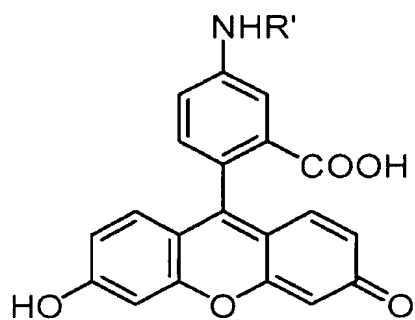
Fig. 12

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3: R = CH₂-≡

4: R = (CH₂)₃N₃



5: R' = CO(CH₂)₈-≡

6: R' = CO(CH₂)₃CONH(CH₂)₃N₃

Fig. 13A

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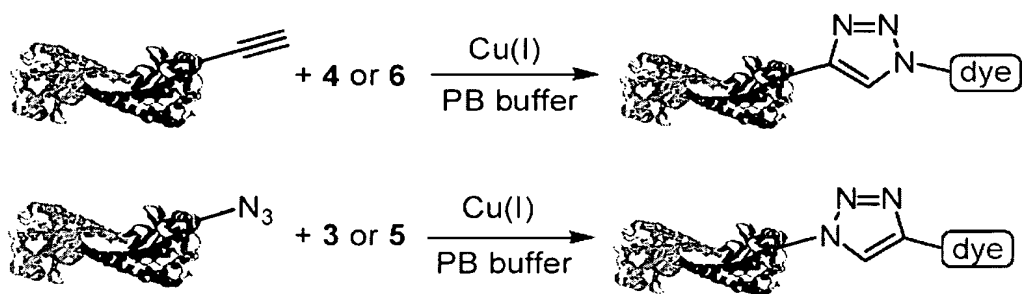


Fig. 13B

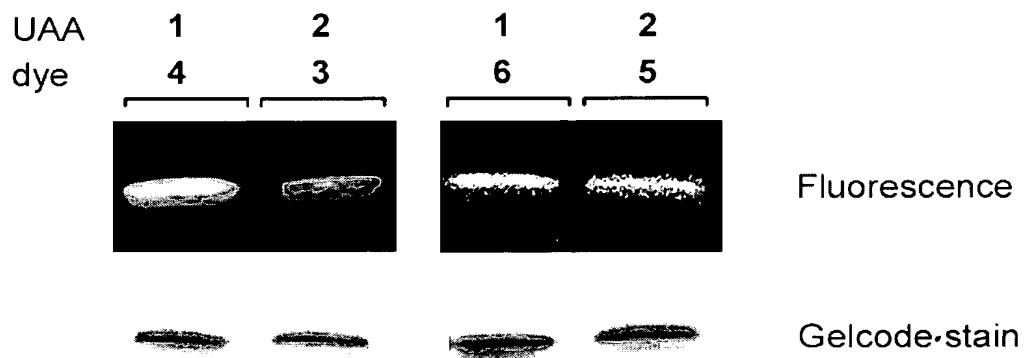


Fig. 13C

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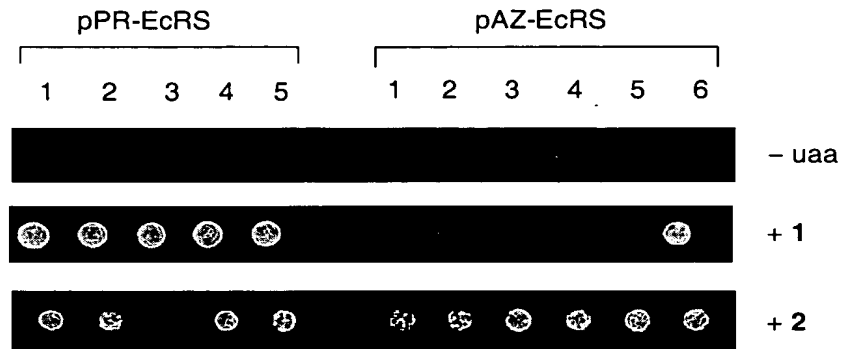


Fig. 14

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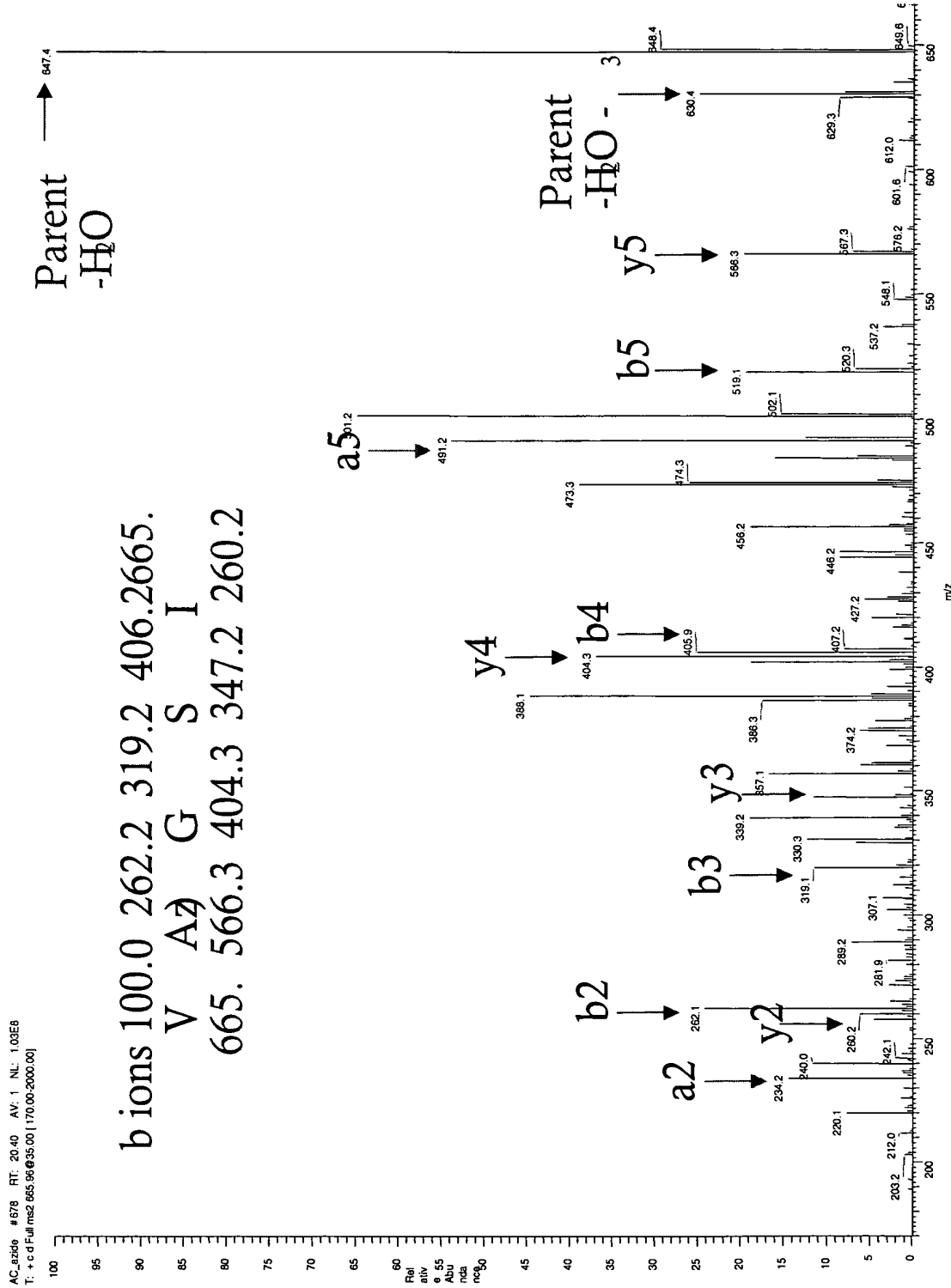


Fig. 15A

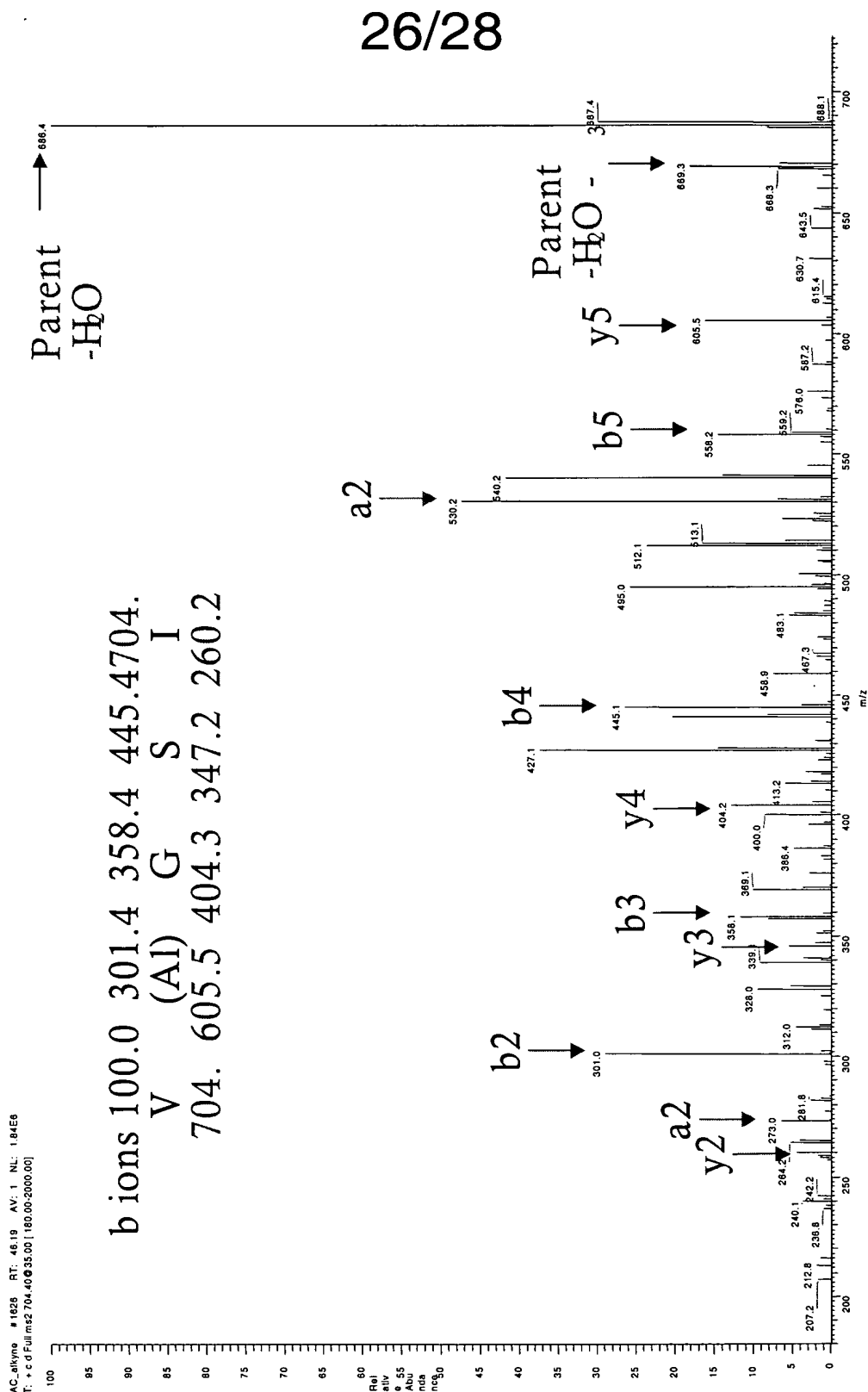


Fig. 15B

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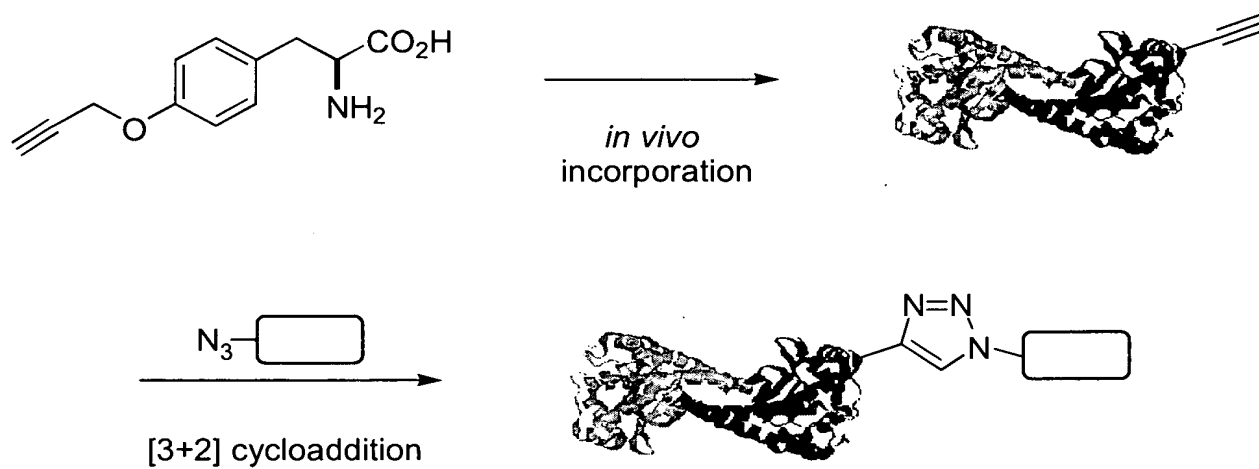


Fig. 16

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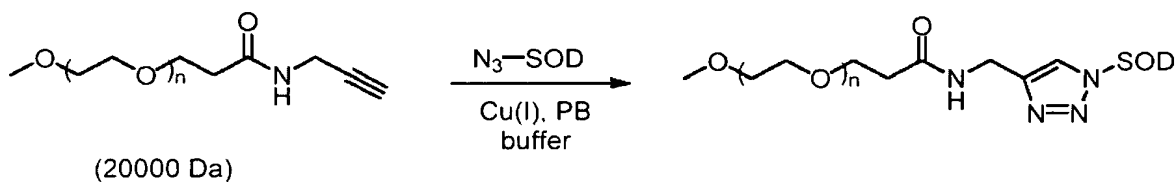


Fig. 17A

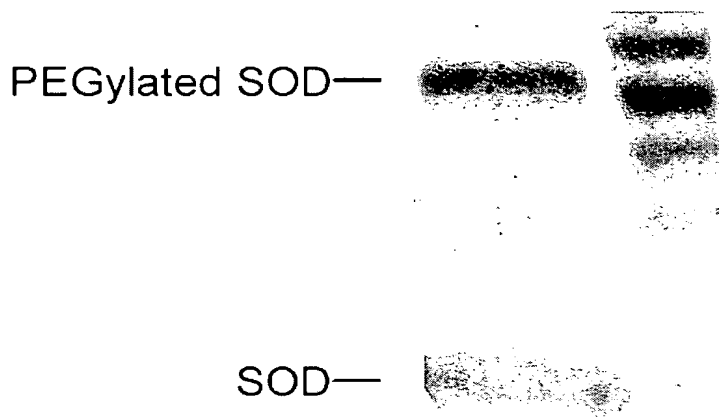


Fig. 17B

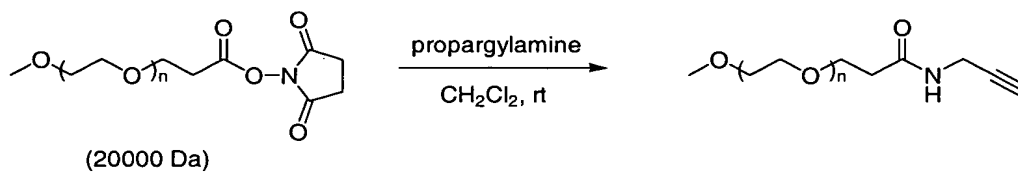


Fig. 17C